

CLAIMS AMENDMENTS

1-14 (canceled).

15 (currently amended). A system useful for detecting a leak in a pressurized piping system having a main supply line and a plurality of branch fluid supply lines in communication with the main supply line, said system comprising:

control logic;

a single user demand detector selected from the group

consisting ~~essentially either~~ of a ~~single~~ flow switch ~~or~~ and a ~~single~~ flow meter, the user demand detector capable of determining whether user demand is present in the pressurized piping system, and the user demand detector being in communication with the control logic;

a single pressure decay detector in communication with the control logic; and

a shut-off valve in communication with the control logic.

16 (original). A system according to Claim 15, wherein the control logic is designed to close the shut-off valve whenever pressure decay has been detected and no user demand has been detected.

17 (currently amended). A system according to Claim 15, wherein the user demand detector consists essentially of ~~a~~ the flow switch.

18 (currently amended). A system according to Claim 15, wherein the user demand detector consists essentially of ~~a~~ the flow meter.

19 (original). A system according to Claim 15, wherein the pressure decay detector comprises a pressure switch.

20-23 (canceled).

24 (new). A system according to Claim 15, wherein the user demand detector and the pressure decay detector are in close proximity to the control logic.

25 (new). A system according to Claim 15, wherein the user demand detector, the pressure decay detector, and the shut-off valve are positioned in a normal operation line between a fluid entry valve and a fluid exit valve, and there is a by-pass valve in a by-pass line between the fluid entry valve and the fluid exit valve.

26 (new). A system according to Claim 25, wherein the user demand detector and the pressure decay detector are in close proximity to the control logic.